

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: W. Kurt DobsonApplication No./Patent No.: Appl.No. 10/676,676 - USP 6,943,729 Filed/Issue Date: 01-October-2003 / 13-September-2005Titled: **METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES**Recon Dynamics, LLC, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy therefore is attached.

**OR**

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: W. Kurt DobsonTo: Spectrum5, Inc.

The document was recorded in the United States Patent and Trademark Office at  
Reel 014570, Frame 0230, or for which a copy thereof is attached.

2. From: Spectrum5, Inc.To: S5 Wireless, Inc.

The document was recorded in the United States Patent and Trademark Office at  
Reel 016333, Frame 0921, or for which a copy thereof is attached.

3. From: S5 Wireless, Inc.To: Recon Dynamics, LLC

The document was recorded in the United States Patent and Trademark Office at  
Reel 024555, Frame 0870, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

- ☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Michael J. Donohue, Reg. No. 35,859/

Signature

July 6, 2010

Date

Michael J. Donohue

Attorney of Record

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

TO:MICHELLE LEIBELT COMPANY:1201 THIRD AVENUE, SUITE 2200

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



JUNE 18, 2010

\*501209608A\*

PTAS

MICHELLE LEIBELT  
1201 THIRD AVENUE, SUITE 2200  
SEATTLE, WA 98101-3045

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/18/2010

REEL/FRAME: 024555/0870

NUMBER OF PAGES: 10

BRIEF: NUNC PRO TUNC ASSIGNMENT (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 91176-9

## ASSIGNOR:

S5 WIRELESS, INC.

DOC DATE: 05/27/2010

## ASSIGNEE:

RECON DYNAMICS, LLC  
2300 CARILLON POINT  
KIRKLAND, WASHINGTON 98033

SERIAL NUMBER: 60543699 ✓

FILING DATE: 02/10/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: WIRELESS ELECTRONIC HOTEL LOCK AND SYSTEM

SERIAL NUMBER: 12046239 ✓

FILING DATE: 03/11/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: RADIO FREQUENCY RECEIVER SYSTEMS THAT ARE CONFIGURED TO ACHIEVE  
HIGH DYNAMIC RANGE

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SERIAL NUMBER: 12046950 ✓ FILING DATE: 03/12/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR SITE MONITORING

SERIAL NUMBER: 11934629 ✓ FILING DATE: 11/02/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEMS AND METHODS FOR OBTAINING AND USING DATA FROM A LOCALIZED LOCATION AND TELEMETRY SYSTEM IN A WIDE AREA LOCATION AND TELEMETRY SYSTEM

SERIAL NUMBER: 12043570 ✓ FILING DATE: 03/06/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEMS AND METHODS FOR PROVIDING A LIMITED SUBSCRIPTION SERVICE

SERIAL NUMBER: 60893244 ✓ FILING DATE: 03/06/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEMS AND METHODS FOR PROVIDING A LIMITED SUBSCRIPTION SERVICE

SERIAL NUMBER: 11733653 ✓ FILING DATE: 04/10/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEMS AND METHODS FOR FACILITATING AUTOMATIC GENERATION OF METADATA ABOUT DATA THAT IS COLLECTED BY A MOBILE DEVICE

SERIAL NUMBER: 11849944 ✓ FILING DATE: 09/04/2007  
PATENT NUMBER: 7539235 ISSUE DATE: 05/26/2009  
TITLE: MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS

SERIAL NUMBER: 11140081 ✓ FILING DATE: 05/27/2005  
PATENT NUMBER: 7606288 ✓ ISSUE DATE: 10/20/2009  
TITLE: BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMETRY

SERIAL NUMBER: 10670708 FILING DATE: 09/24/2003  
PATENT NUMBER: 7092426 ✓ ISSUE DATE: 08/15/2006  
TITLE: MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS

SERIAL NUMBER: 11427256 FILING DATE: 06/28/2006  
PATENT NUMBER: 7280579 ✓ ISSUE DATE: 10/09/2007  
TITLE: MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS

SERIAL NUMBER: 10676798 FILING DATE: 10/01/2003  
PATENT NUMBER: 7236510 ✓ ISSUE DATE: 06/26/2007  
TITLE: EQUALIZER WITH DECISION FEEDBACK FREQUENCY TRACKING AND BIT DECODING FOR SPREAD SPECTRUM COMMUNICATIONS

SERIAL NUMBER: 10676676 FILING DATE: 10/01/2003  
PATENT NUMBER: 6943729 ✓ ISSUE DATE: 09/13/2005  
TITLE: METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES

SERIAL NUMBER: 11200347 FILING DATE: 08/09/2005  
PATENT NUMBER: 7339522 ✓ ISSUE DATE: 03/04/2008  
TITLE: METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES

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SHIRLIE SIMON, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

## NOTICE OF ASSIGNMENT OF PATENTS


WHEREAS, S5 Wireless, Inc., a Delaware corporation, located at 10150 South Centennial Parkway, Suite 200, Sandy, Utah. 84070, United States of America (hereinafter referred to as "ASSIGNOR"), was the owner of record of the United States patents and patent applications set forth in Schedule A attached hereto and made a part hereof, and foreign patents and patent applications set forth in Schedule B attached hereto and made a part hereof (the listed patents and patent applications collectively referred to herein as the "PATENTS"), and was the owner of the inventions described in the PATENTS;

WHEREAS, Recon Dynamics, LLC, a Washington limited liability company (formerly known as Traxion Wireless, LLC, a Washington limited liability company), located at 2300 Carillon Point, Kirkland, WA 98033, United States of America (hereinafter referred to as "ASSIGNEE"), pursuant to a Bill of Sale dated December 23, 2009, acquired all right, title, and interest in the PATENTS, all Letters Patent that may be granted for the PATENTS in the United States and foreign countries, and all inventions owned by ASSIGNOR described in the PATENTS, and desires to have a recordable document evidencing its ownership in the PATENTS;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are thereby acknowledged, ASSIGNOR confirms that they have sold, assigned, and transferred and do hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to the PATENTS, all Letters Patent that may be granted for the PATENTS in the United States and foreign countries, all inventions owned by ASSIGNOR described in the PATENTS and all patents, patent applications and design registrations throughout the world therefor, any and all foreigners, divisions, reissues, continuations and extensions of any of the foregoing, and all rights of ASSIGNOR associated therewith, including the right to sue for and collect damages by reason of past infringement of the PATENTS or of any other patent or design registration assigned hereby. ASSIGNOR further assigns to ASSIGNEE the right to claim priority and any other rights deriving from any patent application by virtue of international convention, treaty or otherwise. The PATENTS and all other patents, patent applications, design registrations and inventions assigned hereby to be held and enjoyed by ASSIGNEE for its use and benefit and by its successors and assigns for their use and benefit as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made.

Executed at SANDY , UTAH , this 27<sup>th</sup> day of MAY , 2010.

ASSIGNOR  
S5 Wireless, Inc.

By   
Jim Baker  
Chief Executive Officer

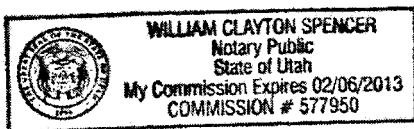
Executed at Kirkland , Washington , this 14<sup>th</sup> day of June , 2010.

ASSIGNEE  
Recon Dynamics, LLC  
(formerly known as Traxion Wireless, LLC)  
by Eagle River, Inc., its Manager

By   
Amit Mehta, Vice President

State of Utah )  
County of Salt Lake ) ss.

I certify that I know or have satisfactory evidence that Jim Baker is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute this instrument, and acknowledged it as the Chief Executive Officer of S5 Wireless, Inc., to be the free and voluntary act of said company for the uses and purposes mentioned in the instrument.



Dated 5/27/10  
Signature of [Signature]  
Notary Public  
Printed Name William Spencer  
My Appointment Expires 2/6/13

State of Washington )  
County of King ) ss.

I certify that I know or have satisfactory evidence that Amit Mehta is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute this instrument, and acknowledged it as the authorized signor of the manager of of **Recon Dynamics, LLC.** to be the free and voluntary act of said company for the uses and purposes mentioned in the instrument.



Dated 06/14/2010  
Signature of [Signature]  
Notary Public  
Printed Name Teresa L. Mason  
My Appointment Expires 06/15/2012

## SCHEDULE A

### U.S. Patents and Patent Applications

Country	Title	Application Number	Patent Number
		Filing Date	Issue Date
United States	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMETRY	11/140,081	7,606,288
		05-27-2005	10-20-1999
United States	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	10/670,708	7,092,426
		09-24-2003	08-15-2006
United States	A MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	11/427,256	7,280,579
		06-28-2006	10-09-2007
United States	EQUALIZER WITH DECISION FEEDBACK FREQUENCY TRACKING AND BIT DECODING FOR SPREAD SPECTRUM COMMUNICATIONS	10/676,798	7,236,510
		10-01-2003	06-26-2007
United States	METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES	10/676,676	6,943,729
		10-01-2003	09-13-2005
United States	METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES	11/200,347	7,339,522
		08-09-2005	03-04-2008
United States	WIRELESS ELECTRONIC HOTEL LOCK AND SYSTEM	60/543,699	N/A
		02-10-2004	N/A
United States	RADIO FREQUENCY RECEIVER SYSTEMS THAT ARE CONFIGURED TO ACHIEVE HIGH DYNAMIC RANGE	12/046,239	
		03-11-2008	
United States	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR SITE MONITORING	12/046,950	
		03-12-2008	
United States	SYSTEMS AND METHODS FOR OBTAINING AND USING DATA FROM A LOCALIZED LOCATION AND TELEMETRY SYSTEM IN A	11/934,629	
		11-02-2007	



Country	Title	Application Number	Patent Number
		Filing Date	Issue Date
	WIDE AREA LOCATION AND TELEMETRY SYSTEM		
United States	SYSTEMS AND METHODS FOR PROVIDING A LIMITED SUBSCRIPTION SERVICE	12/043,570	
		03-06-2008	
United States	SYSTEMS AND METHODS FOR PROVIDING A LIMITED SUBSCRIPTION SERVICE	60/893,244	N/A
		03-06-2007	N/A
United States	SYSTEMS AND METHODS FOR FACILITATING AUTOMATIC GENERATION OF METADATA ABOUT DATA THAT IS COLLECTED BY A MOBILE DEVICE	11/733,653	
		04-10-2007	
United States	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	11/849,944	7,539,235
		09-04-2007	05-26-2009

## SCHEDULE B

### Foreign Patents and Patent Applications

Country	Title	Application Number	Patent Number
		Filing Date	Issue Date
PCT	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMTRY	PCT/US06/19875	N/A
		05-19-2006	N/A
Europe	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMTRY	6770925.3	
		05-19-2006	
Japan	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMTRY	2008-513617 (based on PCT/US06/19875)	
		05-19-2006	
South Korea	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMTRY	10-2007-7028900	
		05-19-2006	
Australia	BURST SPREAD SPECTRUM RADIO SYSTEM AND METHOD FOR ASSET TRACKING AND DATA TELEMTRY	2006252844 (based on PCT/US06/19875)	
		05-19-2006	
PCT	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	PCT/US04/31527	N/A
		09-24-2004	N/A
Europe	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	04789059.5	1668782
		11-11-2009	10-15-2009
United Kingdom	MATCHED FILTER FOR SCALABLE SPREAD	04789059.5	1668782

Country	Title	Application Number	Patent Number
		Filing Date	Issue Date
	SPECTRUM COMMUNICATIONS SYSTEMS	11-11-2009	10-15-2009
Germany	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	04789059.5	602004024096
		11-11-2009	10-15-2009
Switzerland	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	04789059.5	1668782
		11-11-2009	10-15-2009
Ireland	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	04789059.5	1668782
		11-11-2009	10-15-2009
Japan	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	2006-528267	
		03-24-2006	
Korea	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	10-2006-7005749	
		03-23-2006	
Australia	MATCHED FILTER FOR SCALABLE SPREAD SPECTRUM COMMUNICATIONS SYSTEMS	2004306122	
		09-24-2004	
PCT	EQUALIZER WITH DECISION FEEDBACK FREQUENCY TRACKING AND BIT DECODING FOR SPREAD SPECTRUM COMMUNICATIONS	PCT/USO4/31436	N/A
		09-24-2004	N/A

Country	Title	Application Number	Patent Number
		Filing Date	Issue Date
PCT	METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES	PCT/USO4/32105	N/A
		09-30-2004	N/A
Europe	METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES	4817783.6	
		09-30-2004	
Japan	METHOD AND SYSTEM FOR TIME DIFFERENCE OF ARRIVAL (TDOA) LOCATION SERVICES	2006-534085	
		04-03-2006	
PCT	SYSTEMS AND METHODS FOR FACILITATING AUTOMATIC GENERATION OF METADATA ABOUT DATA THAT IS COLLECTED BY A MOBILE DEVICE	PCT/US08/59680	N/A
		04-08-2008	N/A
PCT	SYSTEMS AND METHODS FOR OBTAINING AND USING DATA FROM A LOCALIZED LOCATION AND TELEMETRY SYSTEM IN A WIDE AREA LOCATION AND TELEMETRY SYSTEM	PCT/US08/81611	N/A
		10-29-2008	N/A